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Acute, generalized panniculitis with amylase and lipase i skin.

Arch Dermatol. 1975 Apr;111(4):497-502.

PMID: 1122151 [PubMed - indexed for MEDLINE]

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Acute, generalized panniculitis with amylase and lipase in skin.

Forstrom TL, winkelmann RK.

A patient had an unusual acute, generalized panniculitis. The patient had a five-fold elevation of urinary amylase level and a slightly elevated serum lipase leval without any signs or symptoms of pancreatic disease. A secretin test caused an eightfold elevation in urinary amylase level and some elevation of serum lipase and amylase levels, whereas study of duodenal drainage revealed no abnormalities. Skin specimens from the lesions showed considerable amylase and lipase activity, whereas specimens from controls and from subsequent patients with panniculitis showed no such abnormalities. Autopsy showed a normal pancreas, both grossly and microscopically.

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A synthetic VIP peptide analogue inhibits neutrophil recruitment in rat airways in vivo.
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Pituitary adenylate cyclase-activating peptide inhibits neutrophil chemotaxis.
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1: Peptides. 2001 Dec;22(12):2151-4. Related Articles,

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Pituitary adenylate cyclase-activating peptide inhibits neutrophil chemotaxis.

Kinhult J, Uddman R, Laan M, Linden A, Cardell LO

Allergy laboratory, Department of Otorhinolaryngology, Malmo University Hospital, Malmo, Sweden.

Pituitary adenylate cyclase-activating peptide 38 (PACAI is a neuropeptide that displays several biological effects o interest in the context of airway diseases such as asthma a chronic obstructive pulmonary disease. These effects incl inhibition of airway and vascular smooth muscle tone as v as modulation of inflammatory cell activity. However, litt known about the effect of PACAP on granulocytes. The present study was designed to investigate if PACAP and t closely related peptide vasoactive intestinal peptide (VIP) could affect neutrophil migration. A standard 48 well chemotaxis chamber was used to assess the effects of PA on N-Formyl-L-methionyl-L-leucyl-L-phenylalanine (fM induced neutrophil chemotaxis and spontaneous random migration. PACAP 38 and VIP inhibited fMLP-induced human neutrophil chemotaxis. Furthermore, both peptide also exhibited a dose-related trend toward inhibiting the spontaneous, unstimulated migration of neutrophils. Sinc enhanced cell migration in cell chamber systems is report

to correlate with increased invasive properties in vivo, the presented inhibitory effects of PACAP 38 on neutrophil chemotaxis, supports the idea of an anti-inflammatory rol PACAP. This together with the well documented bronchodilatory capacity of PACAP might indicate a role PACAP-agonists in future treatment of asthma and other inflammatory airway diseases.

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Collateral ventilation in excised human lungs.

Berend N, Skoog C, Thurlbeck WM.

Pressure-volume (PV) curves and single-breath nitrogen (SBN) washout traces were obtained in 32 excised human lungs. Comparison of the volumes at the onset of phage I' the SBN traces (V phase IV) and the volumes at the inflec points (VIP) of the PV curves revealed V phase IV to be significantly larger than VIP. We postulated that V phase was caused by bulk airway closure and that the difference between V phase IV and VIP was due to collateral ventilation. To test this we correlated V phas IV -- VIP w: age and emphysema grades of the lungs. Significant correlations were obtained, demonstrating that with increasing age and emphysema grade V phase IV -- VIP a increased. This is consistent with the documented evidenc for decreased resistance to collateral ventilation with increasing age and emphysema. In addition, in a total of 8 lungs we demonstrated that with increasing age and emphysema there is an increasing incidence of total lack c sigmoid deviation in the PV curve.

PMID: 7228764 [PubMed - indexed for MEDLINE]

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The effects of prehospital advanced life support drug treatment on patient improvement and in-hospital utilization.
Prehosp Emerg Care. 2001 Jul-Sep;5(3):252-60.
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The bronchodilator effect of intravenous glucagon in astl exacerbation: a randomized, controlled trial.
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PMID: 11054194 [PubMed - indexed for MEDLINE]

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in patients receiving parenteral nutrition.
Arch Intern Med. 1990 Jun;150(6):1225-30.
PMID: 2112905 [PubMed - indexed for MEDLINE]

Growth hormone and pulmonary disease. Metabolic effects in patients receiving parentera nutrition.

Suchner U, Rothkopf MM, Stanislaus G, Elwyn DH, Kvetan V, Askanazi J.

Department of Medicine, East Orange, (NJ) Veterans Administration Medical Center 07019.

Six severely malnourished patients with chronic obstructi pulmonary disease were maintained for 3 days with infusi of 5% dextrose in water followed by 12 days of eucaloric total parenteral nutrition. On days 8 through 11, they rece 30 micrograms/d of growth hormone and twice this amou on days 11 through 15. Growth hormone had no significa effects on the plasma concentration of glucose, cortisol, o glucagon but caused a 50% increase in insulin and a 250% increase in somatomedin C concentrations. A positive nitrogen balance of 2 g/d due to growth hormone was probably mediated by insulin. Growth hormone-induced increases in energy expenditure and fat oxidation and decrease in glucose oxidation cannot be accounted for by insulin. The ability of growth hormone to improve nitroge balance may be particularly important for malnourished

patients with chronic obstructive pulmonary disease who, because of their pulmonary insufficiency, are intolerant o: excess nutrients.

PMID: 2112905 [PubMed - indexed for MEDLINE]

1: Diabetes Metab. 1996 Feb;22(1):37-42. Related Articles,

Impaired glucose tolerance in patients with chro hypoxic pulmonary disease.

Hjalmarsen A, Aasebo U, Birkeland K, Sager G, Jord

Department of Pulmonary Medicine, University Hospital Tromso, Norway.

This study investigated glucose metabolism and glucose-mediated hormone responses in patients with chronic respiratory hypoxaemia. Glucose as well as insulin, gluca adrenaline, cortisol and growth hormone (GH) were meas before and at 30, 60 and 120 min during an oral glucose-tolerance test. The following chronic obstructive pulmona disease (COPD) patients were studied: 10 normoxaemic (mean paO2 10.9 +/- 0.4 kPa), 10 hypoxaemic (mean paO 7.6 +/- 0.2 kPa before, and 10.6 +/- 0.4 after 24-h oxygentherapy, and 6 hypoxaemic patients on long-term oxygen therapy (LTOT) (mean paO2 10.9 +/- 0.7 kPa bef and 7.1 +/- 0.3 after 4 h with less than 0.5 litre oxygen pe minute). The hypoxaemic patients were tested both with a without (or reduced) oxygen therapy. Twenty healthy sex and age-matched subjects served as controls. Plasma gluc at 120 min was significantly higher in LTOT patients thar controls ($p < 0.01$), normoxaemic patients ($p < 0.01$) or hypoxaemic patients ($p < 0.01$). The areas under the curv

plasma glucose and insulin were significantly higher in bo the LTOT and hypoxaemic groups compared to controls (0.01 and 0.05, respectively). Glucose values for normoxa COPD patients were similar to those for controls. Glucag adrenaline, cortisol and GH levels did not differ significa between the groups. A 4-h low-dose or oxygen-free interv in the LTOT group or 24 h of oxygen supplementation in hypoxaemic group did not affect glucose and hormone le significantly. It is concluded that severely hypoxaemic CO patients have altered glucose metabolism which cannot be readily explained by changes in gluco-regulatory hormon short-term alterations in oxygenation.

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1: Lab Invest. 1983 Nov;49(5):519-37. Related Articles,

Neuroendocrine components of the bronchopulmonary tract: hyperplasias, dysplasi and neoplasms.

Gould VE, Linnoila RI, Memoli VA, Warren WH.

The dispersed neuroendocrine (NE) system is represented the bronchopulmonary tract by the solitary neuroendocrin cells and the neuroepithelial bodies (NEBs). Immunohistochemically, neuron-specific enolase, seroton bombesin, and calcitonin are demonstrable in both components, whereas leu-enkephalin is demonstrable onl solitary NE cells. The precise function of and interplay between these two components under physiologic and pathologic conditions are not entirely clear. Current indications are that NEBs act as intrapulmonary chemoreceptors sensitive to hypoxia and hypercapnia, whereas solitary NE cells may have a paracrine, regulator function. Even less clear is the possible role of solitary NI cells and NEBs in the processes associated with intrauteri and neonatal pulmonary growth and maturation. Various experimental manipulations have resulted in proliferation solitary NE cells and NEBs. Of particular interest is the apparently selective proliferative effect on NEBs shown b several nitroso compounds. Diethylnitrosamine administration to hamsters for several weeks results in an

increase in the number of NEBs and an increase in the number of cells per NEB. These hyperplastic NEBs expre the same immunoreactive hormones as their normal counterparts. However, when NEB cells from diethylnitrosamine-treated hamsters are cultured in vitro a notable proportion of the resulting endocrine cells express ACTH immunoreactivity. Interestingly, the neoplasms tha eventually develop in these hamsters are not comprised of cells. Studies on human bronchi from specimens resected various types of neoplasms and for bronchiectasis with an without associated chronic obstructive pulmonary disease have revealed frequent hyperplasias of solitary NE cells a NEBs. In about 10% of the specimens, dysplastic aggrega of solitary NE cells and NEBs are found. Unexpected "microcarcinoids" and tumorlets are also seen. The mildly and moderately hyperplastic solitary NE cells and NEBs t to express the hormones indigenous to the bronchi, where in the severely hyperplastic and dysplastic cells, "ectopic" hormones may also be expressed; the latter include predominantly ACTH and vasoactive intestinal polypepti A distinct hyperplasia of NEBs has been found in the lung from individuals living at altitudes ranging from 3400 to 4 meters; these changes may represent an adaptive response chronic hypoxia parallel to the hyperplastic carotid paraganglia that may be found in the same type of popula Bronchopulmonary NE neoplasms comprise a spectrum tl includes typical carcinoids, well-differentiated NE carcinomas, and NE carcinomas of intermediate and smal cell types. Typical carcinoids are predominantly central, display little if any pleomorphism, are richly granulated b electron microscopy, and by immunohistochemistry expre predominantly, although not exclusively, hormones indigenous to their site of origin.(ABSTRACT TRUNCATED AT 400 WORDS)

Publication Types:

- Review

Chronic glucocorticoid therapy-induced osteoporosis in patients with obstructive lung disease.

Goldstein MF, Fallon JJ Jr, Harning R.

Asthma Center, Philadelphia, PA, USA.

Long-term glucocorticoid (GC) therapy has been instrume in decreasing morbidity and mortality in a variety of chro inflammatory diseases, including persistent asthma. Long term GC therapy is also widely prescribed for COPD. On the important and often unrecognized side effects of chro GC therapy is secondary osteoporosis. The risk of GC-induced bone loss is roughly correlated with daily dose, duration, and total cumulative lifetime dose of GC treatm Oral prednisone increases the risk of bone loss and fractu High doses of inhaled GCs may also increase the risk of osteopenia/osteoporosis, but the risk appears to be less tha that associated with oral GCs. Hormone replacement ther oral and parenteral bisphosphonates, supplemental calciu and vitamin D, calcitonin, and fluoride compounds have b used, experimentally, in the management of GC-induced l loss. Asthma and COPD specialists are key prescribers of and inhaled steroids and are likely to encounter patients w

significant bone loss. Despite known risk factors and the availability of reliable diagnostic tools to recognize bone the opportunity to slow, reverse, and treat bone loss is oft missed. We present a review of the current literature regarding the incidence, treatment, and prevention of osteopenia/osteoporosis secondary to chronic GC therapy adult asthma and COPD patients. Guidelines are presente regarding the identification of patients at risk for developi GC-induced secondary bone loss, and therapeutic alternat are discussed.

Publication Types:

- Review

PMID: 10593801 [PubMed - indexed for MEDLINE]

Neurogenic inflammation in the airways.

Barnes PJ.

Department of Thoracic Medicine, National Heart and Lu Institute, Imperial College School of Medicine, Dovehous Street, SW3 6LY, London, UK. p.j.barnes@ic.ac.uk

Release of neuropeptides, including tachykinins and calcitonin gene-related peptide, from sensory nerves via a axon or local reflex may have inflammatory effects in the airways. This neurogenic inflammation may be initiated b activation of sensory nerves by inflammatory mediators a irritants. Neurogenic inflammation is well developed in rodents and may contribute to the inflammatory response allergens, infections and irritants in animal models. Howe the role of neurogenic inflammation in airway inflammat diseases, such as asthma and COPD is still uncertain as th is little direct evidence for the involvement of sensory neuropeptides in human airways. Initial clinical studies us strategies to block neurogenic inflammation have not bee encouraging, but it is important to study more severe form airway disease in more prolonged studies in the future to explore the role of neurogenic inflammation.

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Zhonghua Jie He He Hu Xi Za Zhi. 1999 Sep;22(9):558-61. Chir

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[Changes of calcitonin gene-related peptide cont in induced sputum from patients with COPD an asthma]

[Article in Chinese]

Xu H, Zhao M, Wang X.

Third Hospital of Beijing Medical University, Beijing 100083.

OBJECTIVE: To explore the role of sensory neuropeptid calcitonin gene-related peptide (CGRP) in the pathogenes chronic airway inflammatory diseases COPD and bronchi asthma. METHODS: Patients with COPD (n = 19), bronc asthma (n = 14), all were in stable stage and 10 normal volunteers were examined. After hypertonic saline inhalat challenge in all subjects, CGRP-LI concentration in the induced sputum was measured by radioimmunoassay. Cellular content was assayed by microscopic analysis, the relation between CGRP-LI level and FEV1 value was calculated by linear regression. RESULTS: The sputum CGRP concentrations in patients with COPD and patients with asthma were (15.97 +/- 2.15) ng/L, (18.79 +/- 3.91) ng/L, respectively, both were significantly higher than thc

in normal volunteers (2.36 +/- 0.35) ng/L. Moreover, CGI concentrations in induced sputum in each disease group w correlated with the degree of airflow obstruction, r = -0.5(and -0.61, respectively (P < 0.05). The percentage of neutrophil cell count (64.9 +/- 2.9)% was significantly hig in patients with COPD (P < 0.01), while the percentage of eosinophil cell count (5.8 +/- 0.5)% was increased in patie with asthma (P < 0.01). CONCLUSIONS: The data sugge that CGRP release may participate in the chronic inflammation of patients with COPD and bronchial asthm

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1: J Clin Endocrinol Metab. 1993 Feb;76 (2):456-61.

Elevated 1,25-dihydroxyvitamin D levels in patie with chronic obstructive pulmonary disease trea with prednisone.

Bikle DD, Halloran B, Fong L, Steinbach L, Shellito J.

Endocrine Unit, VA Medical Center, San Francisco, California.

Glucocorticoid administration is a well established cause osteopenia. Mechanisms underlying the deleterious effect glucocorticoids on bone may include direct inhibition of b formation as well as indirect effects through changes in intestinal calcium absorption, renal calcium excretion, an levels of the calciotropic hormones. To further examine th potential role of the calciotropic hormones we measured serum levels of PTH and 1,25 dihydroxyvitamin D [1,25(2D], as well as serum and urine levels of calcium and vertebral bone density in patients with chronic obstructive pulmonary disease being managed with or without prednisone. Patients treated with prednisone had lower sp bone density (53 vs. 106 mg/cm3) and higher serum calci (2.40 vs. 2.33 mmol/l), urine calcium (6.9 vs. 2.7 mmol/2 and 1,25(OH)2D levels (147 vs. 95 pmol/L). Compared to patients not treated with glucocorticoids. PTH levels also

tended to be higher (33 vs. 26 microliters-eq/ml), but the difference was not significant. Serum and urine calcium levels correlated positively with 1,25(OH)2D levels, but r of these measurements correlated with PTH levels. Our results suggest that prednisone treatment alters the regulat of 1,25(OH)2D production, and this may contribute to the loss of bone mineral induced by prednisone.

PMID: 8432789 [PubMed - indexed for MEDLINE]

Calcium and phosphorus homeostasis in man. Effect of corticosteroids.

Lukert BP, Adams JS.

Serum calcium and phosphorus levels, urinary excretion r of calcium, phosphorus, and cyclic adenosine monophosp (cAMP), and plasma parathyroid hormone (PTH) concentrations were determined in 11 normal subjects anc nine patients maintained on long-term prednisone therapy chronic obstructive pulmonary disease. These same determinations were repeated in five of the prednisone-tre patients during the course of a seven-day calcium infusior Prior to the infusion, the prednisone-treated patients demonstrated significantly elevated serum levels of PTH (less than .005) and increased rates of urinary phosphate ar cAMP excreation (P less than .005) when compared with normal subjects. After initiation of calcium infusion, the previous elevations in all of these determinations decrease near normal levels. These data suggest that the effects of secondary hyperparathyroidism in patients maintained on long-term prednisone therapy may be overcome when calcium is administered intravenously.

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Applicability of a threshold loading device for inspirator muscle testing and training in patients with COPD.
Chest. 1989 Sep;96(3):564-71.
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Arch Intern Med. 1976 Nov;136(11):1249-53.
PMID: 185973 [PubMed - indexed for MEDLINE]

Applicability of a threshold loading device for inspiratory muscle testing and training in patien with COPD.

Goldstein R, De Rosie J, Long S, Dolmage T, Avendan MA.

Department of Medicine, University of Toronto, Ontario, Canada.

We evaluated application of a Pth device for testing inspiratory muscle endurance among patients with severe stable COPD. Endurance time in five patients was reproducible. Magnitude of variability was +/- 1.26 minut with a range of +/- 0.19 to +/- 2.28 minutes. Eleven inpati completed inspiratory muscle training twice daily for four weeks in addition to their usual program of respiratory rehabilitation. The mean age of our experimental cohort v 65 years; FEV1, 33 +/- 12 percent predicted; and Dsb, 42 7 percent predicted. Baseline measurements showed no significant differences in pulmonary function, exercise tolerance, inspiratory muscle strength or inspiratory musc endurance between control and study groups. Following training, the study group significantly improved inspirato muscle endurance as evidenced by an increase in enduran time while breathing against the same absolute external P

load used during baseline assessments. There were no associated changes in lung mechanics, muscle strength or exercise tolerance.

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Dtsch Med Wochenschr. 1997 Apr 18;122(16):497-503. German
PMID: 9162622 [PubMed - indexed for MEDLINE]

[Assessment of the hypothalamic-hypophyseal-adrenal axis in patients with chronic obstructive lung disease. Comparison of inhalant with syste glucocorticoid therapy]

[Article in German]

Santen RT, Schlaghecke R, Schwalen A.

Klinik fur Endokrinologie, Heinrich-Heine-Universitat Dusseldorf.

OBJECTIVE: The action of inhalation and systemic treatment of chronic obstructive pulmonary disease by suppressing the hypothalamo-hypophyseal-adrenal axis w compared in patients with chronic obstructive pulmonary disease (COPD). PATIENTS AND METHODS: Adrenocorticotropic hormone (ACTH) and cortisol concentrations were evaluated after a corticotropin-releas hormone (CRH)-test in 50 patients (aged 43 +/- 14 years) with chronic obstructive pulmonary disease (COPD) receiving inhalant glucocorticoid treatment (IGC), 61 pati (aged 54 +/- 11 years) with COPD on systemic glucocorti treatment (SGC) and 50 healthy volunteers (32 +/- 4 year RESULTS: All 50 patients on IGC had normal CRH test

results. 30 of 61 patients with SGC had decreased cortisol response (12 patients had no and 18 a reduced rise in cortisol). ACTH concentration was lower in patients on IC than in the control group (basal ACTH 15.6 pg/ml and 24 pg/ml, respectively; after stimulation 40.3 vs 54.4 pg/ml, respectively). But systemic glucocorticoid treatment clear caused suppression of basal (12.1 pg/ml) and stimulated (pg/ml) ACTH levels with correspondingly decreased cort levels (basal: 75.1 and 118.7 ng/ml [IGC], respectively, a after stimulation 128.5 and 225.9 ng/ml). CONCLUSION Patients with COPD on inhalant glucocorticoid treatment have a clearly lower risk of adrenal cortical insufficiency those on oral glucocorticoid treatment. But some suppress of ACTH secretion is demonstrable even in the former. Clinical significance of these findings seems unlikely. Development of adrenal cortical insufficiency need not be feared in patients treated with inhalant glucocorticoids.

Publication Types:

- Clinical Trial
- Controlled Clinical Trial

PMID: 9162622 [PubMed - indexed for MEDLINE]

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Molecular pharmacology of the secretin receptor.

Dong M, Miller LJ.

Center for Basic Research in Digestive Diseases, Departments of Internal Medicine and Biochemistry/Molecular Biology, Mayo Clinic and Foundatior Guggenheim 17, Mayo Clinic, Rochester, MN 55905, USA.

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Gourlet P, Vandermeers A, Vandermeers-Piret MC, De Neef P, Waelbroeck M, Robberecht P.

Department of Biochemistry and Nutrition, Faculty of Medicine, Universite Libre de Bruxelles, Belgium.

Rabbit secretin, which differs from all other mammalian secretins in having a Leu residue in position 6 (instead of Phe) and a basic residue (Arg) in positio 16, had a lower affinity than porcine secretion on recombinant rat secretin receptors but had a greater affinity than porcine secretin on recombinant rat VIP1 and PACAP I receptors. Synthetic [L6] porcine secretin had a reduced potency on secretin and VIP1 receptors whereas [R16] porcine secretin had a similar binding profile as rabbit secretin. Thus, an arginine residue in positio 16 reduced 3-fold the affinity of secretin for secretin receptors but increased 30-fold its affinity for the VIP1 and PACAP I receptors. The introduction of arginine residue in position 16, instead of glutamine, in VIP and PACAP had similar effect: [R16] VIP and [R16] PACAP had 3- to 10-fold higher affinitie than VIP and PACAP for VIP1 and PACAP I receptors, and 3-fold lower affinities for the secretin receptors. The three [R16] peptides also had a reduc potency on the chimeric receptor consisting of the N-terminal part of the secretin receptor grafted on the VIP1 receptor, and an enhanced potency on t chimeric receptor consisting of the N-terminal part of VIP1 receptor grafted the secretin receptor, indicating that position 16 of each ligand interacted wit the N-terminal extracellular domain of the receptors.

PMID: 8982281 [PubMed - indexed for MEDLINE]

1: Mol Endocrinol. 1998 May;12(5):750-65.

Identification of binding domains of the growth hormone-releasing hormone receptor by analysis of mutant and chimeric receptor proteins.

DeAlmeida VI, Mayo KE.

Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, Evanston, Illinois 60208, USA.

The hypothalamic peptide GH-releasing hormone (GHRH) stimulates the release of GH from the pituitary through binding and activation of the GHRH receptor, which belongs to the family of G protein-coupled receptors. The objective of this study was to identify regions of the receptor critical for interaction with the ligand by expressing and analyzing truncated and chimeric epitope-tagged GHRH receptors. Two truncated receptors, GHRHdeltaN, in which part of the N-terminal domain between the putative signal sequence and the first transmembrane domain was deleted, and GHRHdeltaC, which was truncated downstream of the first intracellular loop, were generated. Both the receptors were deficient in ligand binding, indicating that neither the N-terminal extracellular domain (N terminus) nor the membrane-spanning domains with the associated extracellular loops (C terminus) are alone sufficient for interaction with GHRH. In subsequent studies, chimeric proteins between the receptors for GHRH and vasoactive intestinal peptide (VIP) or secretin were generated, using the predicted start of the first transmembrane domain as the junction for the exchange of the N terminus between receptors. The chimeras having the N terminus of the GHRH receptor and the C terminus of either the VIP or secretin receptor (GNVC and GNSC) did not bind GHRH or activate adenylate cyclase after GHRH treatment. The reciprocal chimeras having the N terminus of either the VIP or secretin receptors and the C terminus of the GHRH receptor (VNGC and SNGC) bound GHRH and stimulated cAMP accumulation after GHRH treatment. These results suggest that although the N-terminal extracellular domain is essential for ligand binding, the transmembrane domains and associated extracellular loop regions of the GHRH receptor provide critical information necessary for specific interaction with GHRH.

1: Pancreas. 1999 Jul;19(1):51-5. Related Articles, Li

Properties of a recombinant human secretin receptor: a comparison with the rat and rabbit receptors.

Di Paolo E, De Neef P, Moguilevsky N, Petry H, Cnudde J, Bollen A, Waelbroeck M, Robberecht P.

Department of Biochemistry, Faculty of Medicine, Brussels, Belgium.

A secretin receptor was cloned from a commercial human pancreatic complementary DNA (cDNA) bank. The amino acid sequence deduced from the nucleotide sequence differed slightly from the three different sequences previously published, suggesting a genetic polymorphism of the human receptor. The binding properties of the receptor were evaluated by testing natural secretin, related peptides, and synthetic analogs or fragments on membranes of Chinese hamster ovary (CHO) cells expressing the receptor af transfection. The second-messenger coupling was evaluated by adenylate cyclase measurement. The human secretin receptor was compared with the ra and the rabbit receptors. In the three animals species, rat and human secretin were equipotent; rabbit secretin was equipotent on human and rabbit secretin receptors and less potent on the rat receptor. Similar data were obtained for tl [Arg16]-secretin analog. Deletion of histidine 1 and replacement of aspartate reduced the affinity of the peptides for the three receptors; however, the reduction was more pronounced on rat than on human and rabbit secretin receptors. Finally, the low affinity of the rat and human receptors for vasoactive intestinal peptide (VIP) was identical; the rabbit receptor, howeve had a 20-fold higher affinity. Thus the human secretin receptor shows properties of both rat and rabbit receptors. Evaluation of the properties of chimeric receptors will be useful to fit the ligand on the receptors.

PMID: 10416692 [PubMed - indexed for MEDLINE]

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L1      194530 COPD OR CHRONIC OBSTRUCTIVE PULMONARY DISEASE

=> S VIP OR vasoactive peptide OR secretin
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=> D L6 1-6

L6    ANSWER 1 OF 6  DGENE  COPYRIGHT 2005 The Thomson Corp on STN
AN    AAW37796  peptide       DGENE
TI    New ligands for vasoactive intestinal peptide receptor - is useful for
      treating   ***VIP***  -related disorders, e.g. asthma, tumours,
      myocardial infarction, stroke, inflammation or auto-immune disease
IN    Gourlet P; Robberecht P; Vandermeers A; Woelbroeck M
PA    (ULBR)      UNIV LIBRE BRUXELLES.
PI      ***WO 9802453    A2 19980122                38p***
AI    WO 1997-BE84         19970715
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PRAI EP 1996-870121   19960919
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DT   Patent
LA   English
OS   1998-110523 [10]
DESC Porcine   ***secretin***   peptide variant 2.

L6   ANSWER 2 OF 6 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN   AAW37795 peptide   DGENE
TI   New ligands for vasoactive intestinal peptide receptor - is useful for
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IN   Gourlet P; Robberecht P; Vandermeers A; Woelbroeck M
PA   (ULBR)   UNIV LIBRE BRUXELLES.
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PRAI EP 1996-870121   19960919
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LA   English
OS   1998-110523 [10]
DESC Porcine   ***secretin***   peptide variant 1.

L6   ANSWER 3 OF 6 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN   AAW37794 peptide   DGENE
TI   New ligands for vasoactive intestinal peptide receptor - is useful for
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IN   Gourlet P; Robberecht P; Vandermeers A; Woelbroeck M
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LA   English
OS   1998-110523 [10]
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IN   Gourlet P; Robberecht P; Vandermeers A; Woelbroeck M
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DESC Porcine   ***secretin***   peptide.

L6   ANSWER 5 OF 6 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 95:217935 PROMT
TITLE: DUGAN/FARLEY COMMUNICATIONS
SOURCE: Med Ad News, (***Apr 1995***) pp. 41.
                    ISSN: 0745-0907.
LANGUAGE: English
WORD COUNT: 1267
                    FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L6   ANSWER 6 OF 6 USPATFULL on STN
AN   79:19306 USPATFULL
TI   Method and means for the early detection and diagnosis of certain types
       of cancers
IN   Wolfsen, Ada R., Fountain Valley, CA, United States
       Odell, William D., Miraleste, CA, United States
PA   Professional Staff Association of the Los Angeles County Harbor General

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       Hospital, Torrance, CA, United States (U.S. corporation)
PI     US 4150149              19790417                              <--
AI     US 1976-745672          19761129 (5)
DT     Utility
FS     Granted
LN.CNT 841
INCL   INCLM: 424/001.000
       INCLS: 023/230.000B; 206/569.000; 424/012.000
NCL    NCLM:  436/542.000
       NCLS:  206/569.000; 436/804.000; 436/808.000; 436/813.000; 436/817.000
IC     [2]
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       ICS: A61K043-00
EXF    023/230B; 023/259R; 424/1; 424/1.5; 424/12; 206/569
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L9            0 L8 AND SECRETIN RECEPTOR

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L14  ANSWER 1 OF 65  USPATFULL on STN
AN     2005:38338  USPATFULL
TI     Receptors and membrane-associated proteins
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Thornton, Michael B., Woodside, CA, UNITED STATES
Swarnakar, Anita, San Francisco, CA, UNITED STATES
Yang, Junming, San Jose, CA, UNITED STATES
Richardson, Thomas W., Redwood City, CA, UNITED STATES
Emerling, Brooke M., Palo Alto, CA, UNITED STATES
Yao, Monique G., Carmel, IN, UNITED STATES
Cocks, Benjamin G., Sunnyvale, CA, UNITED STATES
Sanjanwala, Bharati, Los Altos, CA, UNITED STATES
Mason, Patricia M., Morgan Hill, CA, UNITED STATES
Gandhi, Ameena R., San Francisco, CA, UNITED STATES
Li, Joana X., San Francisco, CA, UNITED STATES
Gururajan, Rajagopal, San Jose, CA, UNITED STATES
Gietzen, Kimberly J., San Jose, CA, UNITED STATES
Forsythe, Ian J., Redwood City, CA, UNITED STATES
PI US 2005033018 A1 20050210
AI US 2004-477714 A1 20040601 (10)
WO 2002-US15899 20020516
PRAI US 2001-292197P 20010518 (60)
US 2001-297012P 20010608 (60)
US 2001-300582P 20010621 (60)
US 2001-300495P 20010622 (60)
US 2001-301992P 20010628 (60)
US 2001-340542P 20011214 (60)
DT Utility
FS APPLICATION
LN.CNT 11726
INCL INCLM: 530/350.000
INCLS: 536/023.500; 435/069.100; 435/320.100; 435/325.000
NCL NCLM: 530/350.000
NCLS: 536/023.500; 435/069.100; 435/320.100; 435/325.000
IC [7]
ICM: C07K014-705
ICS: C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 2 OF 65 USPATFULL on STN
AN 2005:30389 USPATFULL
TI Materials and methods for making improved micelle compositions
IN Onyuksel, Hayat, Western Springs, IL, UNITED STATES
Rubinstein, Israel, Highland Park, IL, UNITED STATES
PI US 2005025819 A1 20050203
AI US 2004-496819 A1 20040907 (10)
WO 2002-US38186 20021127
RLI Continuation-in-part of Ser. No. US 2001-995403, filed on 27 Nov 2001, PENDING Continuation-in-part of Ser. No. US 1999-239069, filed on 27 Jan 1999, GRANTED, Pat. No. US 6217886 Continuation-in-part of Ser. No. US 2000-462819, filed on 18 May 2000, GRANTED, Pat. No. US 6322810 A 371 of International Ser. No. WO 1998-US14316, filed on 9 Jul 1998, PENDING
PRAI US 1997-52078P 19970714 (60)

DT Utility
FS APPLICATION
LN.CNT 3342
INCL INCLM: 424/450.000
INCLS: 424/078.270
NCL NCLM: 424/450.000
NCLS: 424/078.270
IC [7]
ICM: A61K009-127
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 3 OF 65 USPATFULL on STN
AN 2005:23203 USPATFULL
TI Apoptosis-related kinase/GPCRs
IN Seery, Liam, Cork, IRELAND
Hayes, Ian, Cork, IRELAND
Murphy, Finbarr, Cork, IRELAND
PA EiRx Therapeutics Limited (non-U.S. corporation)
PI US 2005019746 A1 20050127
AI US 2004-781581 A1 20040218 (10)
RLI Continuation-in-part of Ser. No. US 2004-764238, filed on 23 Jan 2004, PENDING
PRAI GB 2003-1566 20030123
US 2003-457533P 20030325 (60)
DT Utility
FS APPLICATION
LN.CNT 10710
INCL INCLM: 435/004.000
INCLS: 435/006.000
NCL NCLM: 435/004.000
NCLS: 435/006.000
IC [7]
ICM: C12Q001-00
ICS: C12Q001-68
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 4 OF 65 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 1
AN 2004:390080 BIOSIS
DN PREV200400394661
TI Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD).
AU Davis, Richard J. [Inventor, Reprint Author]; Page, Keith J. [Inventor]
CS Hertfordshire, UK
ASSIGNEE: Pharmagene Laboratories Ltd., Hertfordshire, UK
PI US 6780839 August 24, 2004
SO Official Gazette of the United States Patent and Trademark Office Patents, (Aug 24 2004) Vol. 1285, No. 4. http://www.uspto.gov/web/menu/patdata.html . e-file.
ISSN: 0098-1133 (ISSN print).
DT Patent
LA English
ED Entered STN: 6 Oct 2004
Last Updated on STN: 6 Oct 2004

L14 ANSWER 5 OF 65 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 2
AN 10683998 IFIPAT;IFIUDB;IFICDB
TI USE OF ***SECRETIN*** - ***RECEPTOR*** LIGANDS IN TREATMENT OF CYSTIC FIBROSIS (CF) AND ***CHRONIC*** ***OBSTRUCTIVE*** ***PULMONARY*** ***DISEASE*** (COPD)
IN Davis Richard J (GB); Page Keith J (GB)
PA Pharmagene Laboratories Ltd GB (62535)
PI US 2004191238 A1 20040930
AI US 2004-822677 20040413
RLI US 2001-897412 20010703 DIVISION PENDING
PRAI GB 2000-164418 20000704
FI US 2004191238 20040930
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 10

GI 9 Figure(s).
FIG. 1 shows an alignment of human, porcine and canine ***secretin*** .
FIG. 2 shows differential expression of mRNA of the ***secretin*** ***receptor*** in control and CF lung regions.
FIG. 3 shows mRNA expression of GAPDH in control and lung CF regions.
FIG. 4 shows differential expression of mRNA of the ***secretin*** ***receptor*** in control and CF lung regions from a sample of 16 control and 25 CF tissue donors.
FIG. 5 shows that ***secretin*** stimulates ionic movement in the nonCF tertiary bronchus.
FIG. 6 shows that ***secretin*** stimulates non-CTFR dependent ionic movement in confluent monolayers of primary human tertiary bronchial epithelial cells derived from non-CF donors.
FIG. 7 shows that ***secretin*** stimulates ionic movement in the human CF tertiary bronchus.
FIG. 8 shows the effect of ***secretin*** on chloride ion efflux in primary human tertiary bronchial epithelial cells derived from non CF donors.
FIG. 9 shows the levels of NeuroD mRNA in tertiary bronchus and lung parenchyma of CF patients.

L14 ANSWER 6 OF 65 USPATFULL on STN
AN 2004:314579 USPATFULL
TI Receptors and membrane associated proteins
IN Lal, Preeti G, Santa Clara, CA, UNITED STATES
Honchell, Cynthia D, San Francisco, CA, UNITED STATES
Forsythe, Ian J, Edmonton, CA, UNITED STATES
Chawla, Narinder K, Union City, CA, UNITED STATES
Tang, Y Tom, San Jose, CA, UNITED STATES
Borowsky, Mark L, Northampton, MA, UNITED STATES
Barroso, Ines, Cambridge, UNITED KINGDOM
Yue, Henry, Sunnyvale, CA, UNITED STATES
Warren, Bridget A, San Marcos, CA, UNITED STATES
Thangavelu, Kavitha, Sunnyvale, CA, UNITED STATES
Gietzen, Kimberly J, San Jose, CA, UNITED STATES
Azimzai, Yalda, Oakland, CA, UNITED STATES
Lee, Ernestine A, Kensington, CA, UNITED STATES
Baughn, Mariah R, Los Angeles, CA, UNITED STATES
Gorvad, Ann E, Bellingham, WA, UNITED STATES
Duggan, Brendan M, Sunnyvale, CA, UNITED STATES
Tran, Bao, Santa Clara, CA, UNITED STATES
Li, Joana X, Millbrae, CA, UNITED STATES
Richardson, Thomas W, Redwood City, CA, UNITED STATES
Elliott, Vicki S, San Jose, CA, UNITED STATES
Zebarjadian, Yeganeh, San Francisco, CA, UNITED STATES
Tran, Uyen K, San Jose, CA, UNITED STATES
Yao, Monique G, Mountain View, CA, UNITED STATES
Peterson, David P, San Jose, CA, UNITED STATES
Luo, Wen, San Diego, CA, UNITED STATES
Patricia, Lehr-Mason, Morgan Hill, CA, UNITED STATES
PI US 2004248251 A1 20041209
AI US 2004-484148 A1 20040707 (10)
WO 2002-US22833 20020716
PRAI US 2001-60306020 20010717
US 2001-60308179 20010727
US 2001-60309702 20010802
US 2001-60311476 20010810
US 2001-60311718 20010810
US 2001-60311551 20010810
US 2001-60314798 20010824
US 2001-60316639 20010831
US 2001-60317996 20010907
DT Utility
FS APPLICATION
LN.CNT 11092
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C07K014-705
ICS: C07H021-04

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 7 OF 65 USPATFULL on STN
AN 2004:314488 USPATFULL
TI Novel 14275, 54420, 8797, 27439, 68730, 69112 and 52908 molecules and uses therefor
IN Glucksmann, Maria A., Lexington, MA, UNITED STATES
Curtis, Rory A.J., Ashland, MA, UNITED STATES
Tsai, Fong-Ying, Newton, MA, UNITED STATES
Hodge, Martin R., Lexington, MA, UNITED STATES
Meyers, Rachel E., Newton, MA, UNITED STATES
MacBeth, Kyle J., Boston, MA, UNITED STATES
Bandaru, Rajasekhar, Watertown, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2004248160 A1 20041209
AI US 2004-782695 A1 20040219 (10)
RLI Continuation-in-part of Ser. No. US 2001-7399, filed on 5 Nov 2001, ABANDONED Continuation of Ser. No. US 1999-390039, filed on 3 Sep 1999, ABANDONED Continuation-in-part of Ser. No. US 1998-146416, filed on 3 Sep 1998, ABANDONED Continuation-in-part of Ser. No. US 2002-103458, filed on 22 Mar 2002, ABANDONED Continuation of Ser. No. US 2000-544797, filed on 7 Apr 2000, ABANDONED Continuation-in-part of Ser. No. US 2001-945254, filed on 31 Aug 2001, ABANDONED Continuation-in-part of Ser. No. US 2001-945301, filed on 31 Aug 2001, ABANDONED Continuation-in-part of Ser. No. US 2001-24036, filed on 17 Dec 2001, ABANDONED Continuation-in-part of Ser. No. US 2002-192440, filed on 10 Jul 2002, ABANDONED
PRAI US 2000-229829P 20000831 (60)
US 2000-229301P 20000901 (60)
US 2000-258222P 20001222 (60)
US 2001-341953P 20011219 (60)
US 2001-304243P 20010710 (60)
DT Utility
FS APPLICATION
LN.CNT 27443
INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/006.000
NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 8 OF 65 USPATFULL on STN
AN 2004:280316 USPATFULL
TI Apoptosis-related kinase/GPCRs
IN Seery, Liam, Cork, IRELAND
Hayes, Ian, Cork, IRELAND
Murphy, Finbarr, Cork, IRELAND
PA EiRx Therapeutics Limited (non-U.S. corporation)
PI US 2004219616 A1 20041104
AI US 2004-764238 A1 20040123 (10)
PRAI GB 2003-1566 20030123
US 2003-457533P 20030325 (60)
DT Utility
FS APPLICATION
LN.CNT 7374
INCL INCLM: 435/007.230
NCL NCLM: 435/007.230
IC [7]
ICM: G01N033-574
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 9 OF 65 USPATFULL on STN
AN 2004:221240 USPATFULL
TI G-protein coupled receptor arrays
IN Thirstrup, Kenneth, Kobenhavn, DENMARK
Madsen, Lars Siim, Kobenhavn, DENMARK
Jensen, Jens Bitsch, Kobenhavn, DENMARK
Hummel, Rene, Hellerup, DENMARK
Jensen, Bo Skaaning, Kobenhavn, DENMARK

PI US 2004171008 A1 20040902
AI US 2003-477399 A1 20031112 (10)
WO 2002-DK337 20020521
PRAI DE 2001-A802 20010518
DT Utility
FS APPLICATION
LN.CNT 1805
INCL INCLM: 435/006.000
INCLS: 530/350.000; 435/287.200
NCL NCLM: 435/006.000
NCLS: 530/350.000; 435/287.200
IC [7]
ICM: C12Q001-68
ICS: C12M001-34; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 10 OF 65 USPATFULL on STN
AN 2004:13613 USPATFULL
TI Composition for the detection of signaling pathway gene expression
IN Au-Young, Janice, Brisbane, CA, UNITED STATES
Seilhamer, Jeffrey J., Los Altos Hills, CA, UNITED STATES
PA Incyte Genomics, Inc., Palo Alto, CA (U.S. corporation)
PI US 2004010136 A1 20040115
AI US 2002-305720 A1 20021126 (10)
RLI Continuation of Ser. No. US 1998-16434, filed on 30 Jan 1998, GRANTED, Pat. No. US 6500938
DT Utility
FS APPLICATION
LN.CNT 6582
INCL INCLM: 536/024.300
INCLS: 702/020.000
NCL NCLM: 536/024.300
NCLS: 702/020.000
IC [7]
ICM: C07H021-04
ICS: G06F019-00; G01N033-48; G01N033-50
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 11 OF 65 USPATFULL on STN
AN 2004:7325 USPATFULL
TI Proteins, polynucleotides ecoding them and methods of using the same
IN Anderson, David W., Branford, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Colman, Steven D., Guilford, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Gunther, Erik, Branford, CT, UNITED STATES
Kekuda, Ramesh, Stamford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Mehraban, Fuad, Trumbull, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Rothenberg, Mark, Clinton, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
PI US 2004005558 A1 20040108
AI US 2002-52648 A1 20020118 (10)
PRAI US 2001-262454P 20010118 (60)
US 2001-272920P 20010302 (60)
US 2001-284549P 20010418 (60)
US 2001-303229P 20010705 (60)
US 2001-262892P 20010119 (60)
US 2001-263605P 20010123 (60)
US 2001-269098P 20010215 (60)
US 2001-264159P 20010125 (60)
US 2001-265517P 20010131 (60)
US 2001-271855P 20010227 (60)

US 2001-267057P 20010207 (60)
US 2001-286287P 20010425 (60)
DT Utility
FS APPLICATION
LN.CNT 10349
INCL INCLM: 435/006.000
INCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 514/012.000; 514/044.000; 530/350.000; 530/388.100
NCL NCLM: 435/006.000
NCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 514/012.000; 514/044.000; 530/350.000; 530/388.100
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; G01N033-567; A61K038-17; A61K048-00; C12P021-02; C12N005-06; C07K014-47; C07K016-18
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 12 OF 65 USPATFULL on STN
AN 2004:7324 USPATFULL
TI Proteins, polynucleotides encoding them and methods of using the same
IN Padigaru, Muralidhara, Branford, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Colman, Steven D., Guilford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Pena, Carol E. A., New Haven, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
Millet, Isabelle, Milford, CT, UNITED STATES
Miller, Charles E., Guilford, CT, UNITED STATES
Lepley, Denise M., Branford, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Baumgartner, Jason C., New Haven, CT, UNITED STATES
Herrmann, John L., Guilford, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Mezes, Peter D., Old Lyme, CT, UNITED STATES
Kekuda, Ramesh, Norwalk, CT, UNITED STATES
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
Liu, Xiaohong, Lexington, MA, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Rothenberg, Mark, Clinton, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
PI US 2004005557 A1 20040108
AI US 2002-51874 A1 20020116 (10)
PRAI US 2001-261376P 20010116 (60)
US 2001-268595P 20010214 (60)
US 2001-325306P 20010927 (60)
US 2001-262587P 20010118 (60)
US 2001-272409P 20010228 (60)
US 2001-262454P 20010118 (60)
US 2001-276777P 20010316 (60)
US 2001-291672P 20010517 (60)
US 2001-330336P 20011018 (60)
US 2001-265530P 20010131 (60)
US 2001-345202P 20011109 (60)
DT Utility
FS APPLICATION
LN.CNT 16208

INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/350.000; 536/023.200
NCL NCLM: 435/006.000
NCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/350.000; 536/023.200
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06; C07K014-435
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 13 OF 65 USPATFULL on STN
AN 2004:116712 USPATFULL
TI Nucleic acid encoding 15571, a GPCR-like molecule of the ***secretin*** -like family
IN Hodge, Martin R., Arlington, MA, United States
Lloyd, Clare, London, UNITED KINGDOM
Weich, Nadine S., Brookline, MA, United States
PA Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)
PI US 6733990 B1 20040511
AI US 2000-631603 20000803 (9)
RLI Continuation-in-part of Ser. No. US 2000-515781, filed on 29 Feb 2000, now abandoned
PRAI US 1999-146916P 19990803 (60)
DT Utility
FS GRANTED
LN.CNT 4954
INCL INCLM: 435/069.100
INCLS: 435/071.100; 435/071.200; 435/252.300; 435/254.110; 435/325.000; 435/471.000; 435/320.100; 536/023.500; 530/350.000
NCL NCLM: 435/069.100
NCLS: 435/071.100; 435/071.200; 435/252.300; 435/254.110; 435/320.100; 435/325.000; 435/471.000; 530/350.000; 536/023.500
IC [7]
ICM: C12N015-12
ICS: C12N005-10; C12N015-63
EXF 536/23.1; 536/23.5; 530/350; 435/69.1; 435/71.1; 435/71.2; 435/325; 435/320.1; 435/471; 435/252.3; 435/254.11
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 14 OF 65 USPATFULL on STN
AN 2003:318673 USPATFULL
TI 14400, 2838, 14618, 15334, 14274, 32164, 39404, 38911, 26904, 31237, 18057, 16405, 32705, 23224, 27423, 32700, 32712 and 12216, novel seven-transmembrane proteins/G-protein coupled receptors
IN Glucksmann, Maria A., Lexington, MA, UNITED STATES
Weich, Nadine S., Brookline, MA, UNITED STATES
Hunter, John Joseph, Somerville, MA, UNITED STATES
White, David, Braintree, MA, UNITED STATES
MacBeth, Kyle J., Boston, MA, UNITED STATES
Williamson, Mark J., Saugus, MA, UNITED STATES
Meyers, Rachel E., Newton, MA, UNITED STATES
Chun, Miyoung, Belmont, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003224417 A1 20031204
AI US 2003-400991 A1 20030327 (10)
RLI Continuation-in-part of Ser. No. US 2002-190469, filed on 5 Jul 2002, PENDING Continuation of Ser. No. US 1999-439159, filed on 12 Nov 1999, ABANDONED Division of Ser. No. US 1998-137063, filed on 20 Aug 1998, ABANDONED Continuation-in-part of Ser. No. US 2002-167192, filed on 11 Jun 2002, PENDING Division of Ser. No. US 1999-420187, filed on 18 Oct 1999, ABANDONED Continuation-in-part of Ser. No. US 1998-173869, filed on 16 Oct 1998, ABANDONED Continuation-in-part of Ser. No. US 2003-339056, filed on 9 Jan 2003, PENDING Continuation of Ser. No. US 1999-377429, filed on 19 Aug 1999, ABANDONED Continuation-in-part of Ser. No. US 1998-136726, filed on 19 Aug 1998, ABANDONED Continuation-in-part of Ser. No. US 2001-911583, filed on 24 Jul 2001, ABANDONED Continuation-in-part of Ser. No. US 1999-476287, filed on 30 Dec 1999, ABANDONED Continuation-in-part of Ser. No. US 1999-475790, filed on 30 Dec 1999, ABANDONED Continuation-in-part of Ser. No. US 2001-779448, filed on 8 Feb 2001, ABANDONED Continuation-in-part of Ser.

No. US 1999-347094, filed on 2 Jul 1999, ABANDONED Continuation-in-part of Ser. No. US 2001-794257, filed on 27 Feb 2001, PENDING Continuation-in-part of Ser. No. US 1999-448687, filed on 24 Nov 1999, PENDING Continuation-in-part of Ser. No. US 1998-200302, filed on 25 Nov 1998, ABANDONED
PRAI US 2000-180986P 20000208 (60)
US 2000-185606P 20000229 (60)
DT Utility
FS APPLICATION
LN.CNT 10269
INCL INCLM: 435/006.000
INCLS: 435/007.100; 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500; 514/012.000
NCL NCLM: 435/006.000
NCLS: 435/007.100; 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500; 514/012.000
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; C07K014-705; C12P021-02; C12N005-06; A61K038-17
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 15 OF 65 USPATFULL on STN
AN 2003:306426 USPATFULL
TI Novel 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 molecules and uses therefor
IN Glucksmann, Maria A., Lexington, MA, UNITED STATES
Silos-Santiago, Inmaculada, Del Mar, CA, UNITED STATES
Carroll, Joseph M., Cambridge, MA, UNITED STATES
Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003215860 A1 20031120
AI US 2003-407079 A1 20030403 (10)
RLI Continuation-in-part of Ser. No. US 2002-226102, filed on 22 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-225094, filed on 21 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-272417, filed on 15 Oct 2002, PENDING Continuation of Ser. No. US 2000-715790, filed on 17 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US 2002-282837, filed on 29 Oct 2002, PENDING Continuation of Ser. No. US 2001-796338, filed on 28 Feb 2001, ABANDONED Continuation-in-part of Ser. No. US 2001-863200, filed on 22 May 2001, ABANDONED
PRAI US 2001-314041P 20010822 (60)
US 2001-314185P 20010822 (60)
US 2000-191845P 20000324 (60)
US 2000-186059P 20000229 (60)
US 2000-206019P 20000522 (60)
DT Utility
FS APPLICATION
LN.CNT 12157
INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 530/388.100; 536/023.100
NCL NCLM: 435/006.000
NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 530/388.100; 536/023.100
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C07K014-47; C12P021-02; C12N005-06; C07K016-18
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 16 OF 65 USPATFULL on STN
AN 2003:237885 USPATFULL
TI Novel seven-transmembrane proteins/G-protein coupled receptors
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
Silos-Santiago, Inmaculada, Cambridge, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003166042 A1 20030904
AI US 2001-781880 A1 20010212 (9)
PRAI US 2000-182061P 20000211 (60)
DT Utility
FS APPLICATION
LN.CNT 4981
INCL INCLM: 435/069.100

INCLS: 435/320.100; 435/325.000; 435/183.000; 536/023.200
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 435/183.000; 536/023.200
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07H021-04; C12N009-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 17 OF 65 USPATFULL on STN
AN 2003:232047 USPATFULL
TI 32164 protein, a novel seven transmembrane protein
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
Weich, Nadine S., Brookline, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003162247 A1 20030828
AI US 2001-911583 A1 20010724 (9)
RLI Continuation-in-part of Ser. No. US 1999-476287, filed on 30 Dec 1999, PENDING
PRAI WO 2000-US34973 20001222
DT Utility
FS APPLICATION
LN.CNT 3764
INCL INCLM: 435/069.100
INCLS: 530/350.000; 435/320.100; 435/325.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 530/350.000; 435/320.100; 435/325.000; 536/023.500
IC [7]
ICM: C07K014-705
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 18 OF 65 USPATFULL on STN
AN 2003:231972 USPATFULL
TI 2871 receptor, a novel G-protein coupled receptor
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
Hodge, Martin R., Arlington, MA, UNITED STATES
Hunter, John J., Somerville, MA, UNITED STATES
Rudolph-Owen, Laura, Jamaica Plain, MA, UNITED STATES
Weich, Nadine S., Brookline, MA, UNITED STATES
PI US 2003162172 A1 20030828
AI US 2000-741783 A1 20001218 (9)
RLI Continuation-in-part of Ser. No. US 1999-464685, filed on 16 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-324465, filed on 2 Jun 1999, PENDING Continuation-in-part of Ser. No. US 1998-88857, filed on 2 Jun 1998, ABANDONED
DT Utility
FS APPLICATION
LN.CNT 3226
INCL INCLM: 435/006.000
INCLS: 536/023.200; 435/007.100
NCL NCLM: 435/006.000
NCLS: 536/023.200; 435/007.100
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 19 OF 65 USPATFULL on STN
AN 2003:213811 USPATFULL
TI G protein coupled receptor agonists and antagonists and methods of activating and inhibiting G protein coupled receptors using the same
IN Kuliopulos, Athan, Winchester, MA, UNITED STATES
Covic, Lidija, Somerville, MA, UNITED STATES
PI US 2003148449 A1 20030807
AI US 2002-251703 A1 20020920 (10)
RLI Continuation-in-part of Ser. No. US 2001-841091, filed on 23 Apr 2001, PENDING
PRAI US 2000-198993P 20000421 (60)
DT Utility
FS APPLICATION
LN.CNT 2816
INCL INCLM: 435/069.100

INCLS: 435/320.100; 435/325.000; 530/350.000; 514/012.000; 514/558.000
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 514/012.000; 514/558.000
IC [7]
ICM: A61K038-17
ICS: C12P021-02; C12N005-06; C07K014-705; A61K031-20
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 20 OF 65 USPATFULL on STN
AN 2003:213643 USPATFULL
TI 65499 and 58875, novel seven transmembrane receptors and uses thereof
IN Glucksmann, Maria A., Lexington, MA, UNITED STATES
PI US 2003148281 A1 20030807
AI US 2001-971269 A1 20011003 (9)
PRAI US 2000-237700P 20001005 (60)
DT Utility
FS APPLICATION
LN.CNT 5168
INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/006.000
NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C12P021-02; C12N005-06; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 21 OF 65 USPATFULL on STN
AN 2003:200905 USPATFULL
TI Novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
Silos-Santiago, Inmaculada, Jamaica Plain, MA, UNITED STATES
Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES
Weich, Nadine, Brookline, MA, UNITED STATES
Curtis, Rory A. J., Framingham, MA, UNITED STATES
Bandaru, Rajasekhar, Watertown, MA, UNITED STATES
Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED STATES
PI US 2003138890 A1 20030724
AI US 2002-145586 A1 20020514 (10)
RLI Continuation-in-part of Ser. No. US 2001-796338, filed on 28 Feb 2001, PENDING Continuation-in-part of Ser. No. WO 2001-US6543, filed on 28 Feb 2001, PENDING
PRAI WO 2001-US6057 20010223
WO 2001-US23152 20010723
WO 2001-US40476 20010409
WO 2001-US7139 20010305
WO 2001-US19544 20010615
WO 2001-US29967 20010925
WO 2001-US9470 20010323
WO 2001-US10380 20010330
WO 2001-US29968 20010925
US 2000-186059P 20000229 (60)
US 2000-220042P 20000721 (60)
US 2000-187447P 20000307 (60)
US 2000-211673P 20000615 (60)
US 2000-235049P 20000925 (60)
US 2000-191863P 20000324 (60)
US 2000-193919P 20000331 (60)
US 2000-235032P 20000925 (60)
DT Utility
FS APPLICATION
LN.CNT 51652
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C07K014-705
ICS: C12P021-02; C12N005-06; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 22 OF 65 USPATFULL on STN
AN 2003:187854 USPATFULL
TI 14274 receptor, a novel G-protein coupled receptor related to the EDG receptor family
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
Weich, Nadine S., Brookline, MA, UNITED STATES
Hunter, John J., Somerville, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003129644 A1 20030710
AI US 2003-339056 A1 20030109 (10)
RLI Continuation of Ser. No. US 1999-377429, filed on 19 Aug 1999, ABANDONED Continuation-in-part of Ser. No. US 1998-136726, filed on 19 Aug 1998, PENDING
DT Utility
FS APPLICATION
LN.CNT 3157
INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 530/388.220; 536/023.500; 435/007.100
NCL NCLM: 435/006.000
NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 530/388.220; 536/023.500; 435/007.100
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; C07H021-04; C12P021-02; C12N005-06; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 23 OF 65 USPATFULL on STN
AN 2003:180840 USPATFULL
TI 43238, a novel G protein-coupled receptor and uses therefor
IN Glucksmann, Maria, Newton, MA, UNITED STATES
Silos-Santiago, Inmaculada, Cambridge, MA, UNITED STATES
PI US 2003124670 A1 20030703
AI US 2002-272417 A1 20021015 (10)
RLI Continuation of Ser. No. US 2000-715790, filed on 17 Nov 2000, ABANDONED
PRAI US 2000-191845P 20000324 (60)
DT Utility
FS APPLICATION
LN.CNT 4070
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500; 530/388.220; 435/006.000
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500; 530/388.220; 435/006.000
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C12P021-02; C12N005-06; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 24 OF 65 USPATFULL on STN
AN 2003:140941 USPATFULL
TI 21132, a human G-protein coupled receptor family member and uses therefor
IN Carroll, Joseph M., Cambridge, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003096783 A1 20030522
AI US 2002-266886 A1 20021008 (10)
PRAI US 2001-328345P 20011010 (60)
DT Utility
FS APPLICATION
LN.CNT 4722
INCL INCLM: 514/044.000
INCLS: 514/012.000; 514/001.000; 424/146.100; 435/006.000; 435/007.100
NCL NCLM: 514/044.000
NCLS: 514/012.000; 514/001.000; 424/146.100; 435/006.000; 435/007.100
IC [7]
ICM: A61K048-00
ICS: A61K038-17; A61K031-00; C12Q001-68; G01N033-53; A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 25 OF 65 USPATFULL on STN
AN 2003:140506 USPATFULL
TI Polynucleotides encoding two novel human G-protein coupled receptors, HGPRBMY28 and HGPRBMY29, and splice variants thereof
IN Feder, John N., Belle Mead, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Mintier, Gabriel A., Hightstown, NJ, UNITED STATES
Bol, David, Langhorne, PA, UNITED STATES
Hawken, Donald R., Lawrenceville, NJ, UNITED STATES
PI US 2003096347 A1 20030522
AI US 2002-120604 A1 20020411 (10)
PRAI US 2001-283145P 20010411 (60)
US 2001-283161P 20010411 (60)
US 2001-288468P 20010503 (60)
US 2001-300619P 20010625 (60)
DT Utility
FS APPLICATION
LN.CNT 20308
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07K014-705; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 26 OF 65 USPATFULL on STN
AN 2003:127069 USPATFULL
TI 18636 receptor, a human G-protein-coupled receptor (GPCR) family member, and uses therefor
IN Carroll, Joseph M., Cambridge, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003087281 A1 20030508
AI US 2002-226102 A1 20020822 (10)
PRAI US 2001-314041P 20010822 (60)
DT Utility
FS APPLICATION
LN.CNT 4612
INCL INCLM: 435/006.000
INCLS: 435/007.100
NCL NCLM: 435/006.000
NCLS: 435/007.100
IC [7]
ICM: C12Q001-68
ICS: G01N033-53
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 27 OF 65 USPATFULL on STN
AN 2003:127037 USPATFULL
TI 93870, a human G-protein coupled receptor and uses therefor
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003087249 A1 20030508
AI US 2002-85233 A1 20020228 (10)
PRAI US 2001-272677P 20010301 (60)
DT Utility
FS APPLICATION
LN.CNT 4506
INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/006.000
NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C12P021-02; C12N005-06; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 28 OF 65 USPATFULL on STN
AN 2003:93040 USPATFULL
TI 2466 receptor, a human G-protein-coupled receptor (GPCR) family member and uses therefor

IN Silos-Santiago, Inmaculada, Jamaica Plain, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003064399 A1 20030403
AI US 2002-225094 A1 20020821 (10)
PRAI US 2001-314185P 20010822 (60)
DT Utility
FS APPLICATION
LN.CNT 4590
INCL INCLM: 435/006.000
INCLS: 435/007.100
NCL NCLM: 435/006.000
NCLS: 435/007.100
IC [7]
ICM: C12Q001-68
ICS: G01N033-53
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 29 OF 65 USPATFULL on STN
AN 2003:57488 USPATFULL
TI Novel G-protein coupled receptors
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
Weich, Nadine S., Brookline, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003040052 A1 20030227
AI US 2002-167192 A1 20020611 (10)
RLI Division of Ser. No. US 1999-420187, filed on 18 Oct 1999, PENDING
Continuation-in-part of Ser. No. US 1998-173869, filed on 16 Oct 1998, PENDING
DT Utility
FS APPLICATION
LN.CNT 4725
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C07K014-705
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 30 OF 65 USPATFULL on STN
AN 2003:23699 USPATFULL
TI Novel nucleic acid sequences encoding G-protein coupled receptors
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
Hodge, Martin R., Lexington, MA, UNITED STATES
Hunter, John J., Somerville, MA, UNITED STATES
Rudolph-Owen, Laura A., Jamaica Plain, MA, UNITED STATES
Silos-Santiago, Inmaculada, Jamaica Plain, MA, UNITED STATES
Weich, Nadine S., Brookline, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003017539 A1 20030123
AI US 2002-165844 A1 20020607 (10)
RLI Continuation-in-part of Ser. No. US 2000-741783, filed on 18 Dec 2000, PENDING Continuation-in-part of Ser. No. US 1999-464685, filed on 16 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-324465, filed on 2 Jun 1999, PENDING Continuation-in-part of Ser. No. US 1998-88857, filed on 2 Jun 1998, ABANDONED Continuation-in-part of Ser. No. US 1999-383745, filed on 26 Aug 1999, PENDING Continuation-in-part of Ser. No. US 1998-145745, filed on 2 Sep 1998, PENDING Continuation-in-part of Ser. No. US 1999-234923, filed on 21 Jan 1999, PENDING Continuation-in-part of Ser. No. US 1999-340880, filed on 28 Jun 1999, PENDING
DT Utility
FS APPLICATION
LN.CNT 11690
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C07K014-705
ICS: C07H021-04; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 31 OF 65 CIN COPYRIGHT 2005 ACS on STN
AN 32(50):23624F CIN
TI Patents: applications published 2 April 2003
SO Manuf. Chem., Oct 2003 (20031000), 74(10), p. 78. ISSN: 0262-4230; CODEN: MCHMDI.
LA English

L14 ANSWER 32 OF 65 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
AN 2002:31273 CAPLUS
DN 136:80339
TI Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
IN Davis, Richard Jon; Page, Keith John
PA Pharmagene Laboratories Ltd., UK
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002002134	A1	20020110	WO 2001-GB2989	20010704
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 2002142956	A1	20021003	US 2001-897412	20010703
	US 6780839	B2	20040824		
	CA 2412839	AA	20020110	CA 2001-2412839	20010704
	AU 2001067729	A5	20020114	AU 2001-67729	20010704
	GB 2368795	A1	20020515	GB 2002-416	20010704
	GB 2368795	B2	20040804		
	EP 1296708	A1	20030402	EP 2001-945514	20010704
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004501977	T2	20040122	JP 2002-506755	20010704
	GB 2397522	A1	20040728	GB 2004-9577	20010704
	GB 2397522	B2	20040922		
	NZ 523303	A	20041126	NZ 2001-523303	20010704
	NO 2002006119	A	20030225	NO 2002-6119	20021219
	ZA 2002010268	A	20031028	ZA 2002-10268	20021219
	US 2004191238	A1	20040930	US 2004-822677	20040413
PRAI	GB 2000-16441	A	20000704		
	US 2001-897412	A3	20010703		
	GB 2002-416	A3	20010704		
	WO 2001-GB2989	W	20010704		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 33 OF 65 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 4
AN 10199251 IFIPAT;IFIUDB;IFICDB
TI USE OF ***SECRETIN*** - ***RECEPTOR*** LIGANDS IN TREATMENT OF CYSTIC FIBROSIS (CF) AND ***CHRONIC*** ***OBSTRUCTIVE*** ***PULMONARY*** ***DISEASE*** (COPD); ADMINISTERING AN AGENT WHICH TRIGGERS ANION EFFLUX IN RESPIRATORY TISSUE VIA THE ACTIVATION OF A ***SECRETIN*** ***RECEPTOR*** FOR THERAPY OF CYSTIC FIBROSIS
IN Davis Richard J (GB); Page Keith J (GB)
PA Unassigned Or Assigned To Individual (68000)
PI US 2002142956 A1 20021003
AI US 2001-897412 20010703
PRAI GB 2000-164418 20000704
FI US 2002142956 20021003
DT Utility; Patent Application - First Publication
FS CHEMICAL

APPLICATION
CLMN 10
GI 9 Figure(s).
FIG. 1 shows an alignment of human, porcine and canine ***secretin*** .
FIG. 2 shows differential expression of mRNA of the ***secretin*** ***receptor*** in control and CF lung regions.
FIG. 3 shows mRNA expression of GAPDH in control and lung CF regions.
FIG. 4 shows differential expression of mRNA of the ***secretin*** ***receptor*** in control and CF lung regions from a sample of 16 control and 25 CF tissue donors.
FIG. 5 shows that ***secretin*** stimulates ionic movement in the nonCF tertiary bronchus.
FIG. 6 shows that ***secretin*** stimulates non-CTFR dependent ionic movement in confluent monolayers of primary human tertiary bronchial epithelial cells derived from non-CF donors.
FIG. 7 shows that ***secretin*** stimulates ionic movement in the human CF tertiary bronchus.
FIG. 8 shows the effect of ***secretin*** on chloride ion efflux in primary human tertiary bronchial epithelial cells derived from non CF donors.
FIG. 9 shows the levels of NeuroD mRNA in tertiary bronchus and lung parenchyma of CF patients.

L14 ANSWER 34 OF 65 USPATFULL on STN
AN 2002:213774 USPATFULL
TI 14275 receptor, a novel G-protein coupled receptor related to the EDGreceptor family
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
Hodge, Martin R., Arlington, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2002115150 A1 20020822
AI US 2001-7399 A1 20011105 (10)
RLI Continuation of Ser. No. US 1999-390039, filed on 3 Sep 1999, ABANDONED
Continuation-in-part of Ser. No. US 1998-146416, filed on 3 Sep 1998, ABANDONED
DT Utility
FS APPLICATION
LN.CNT 4004
INCL INCLM: 435/069.100
INCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500
IC [7]
ICM: C07K014-705
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 35 OF 65 USPATFULL on STN
AN 2002:78404 USPATFULL
TI 18057 protein, a novel seven transmembrane protein
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
MacBeth, Kyle J., Boston, MA, UNITED STATES
Williamson, Mark, Saugus, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2002042058 A1 20020411
AI US 2001-779448 A1 20010208 (9)
PRAI US 2000-180986P 20000208 (60)
DT Utility
FS APPLICATION
LN.CNT 4184
INCL INCLM: 435/006.000
NCL NCLM: 435/006.000
IC [7]
ICM: C12Q001-68
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 36 OF 65 USPATFULL on STN
AN 2002:72625 USPATFULL
TI 26908 novel G protein-coupled receptors and uses therefor
IN Glucksmann, Maria A., Lexington, MA, UNITED STATES
PI US 2002039762 A1 20020404
AI US 2001-863200 A1 20010522 (9)

PRAI US 2000-206019P 20000522 (60)
DT Utility
FS APPLICATION
LN.CNT 4248
INCL INCLM: 435/069.100
  INCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.200
NCL NCLM: 435/069.100
  NCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.200
IC [7]
  ICM: C07K014-705
  ICS: C12P021-02; C12N005-06; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 37 OF 65 USPATFULL on STN
AN 2002:346979 USPATFULL
TI Composition for the detection of signaling pathway gene expression
IN Au-Young, Janice, Berkeley, CA, United States
  Seilhamer, Jeffrey J., Los Altos Hills, CA, United States
PA Incyte Genomics, Inc., Palo Alto, CA, United States (U.S. corporation)
PI US 6500938 B1 20021231
AI US 1998-16434 19980130 (9)
DT Utility
FS GRANTED
LN.CNT 6180
INCL INCLM: 536/023.100
  INCLS: 422/050.000; 422/068.100; 435/006.000; 436/501.000; 536/024.100;
    536/024.300; 536/024.310; 536/024.320; 536/024.330
NCL NCLM: 536/023.100
  NCLS: 422/050.000; 422/068.100; 435/006.000; 436/501.000; 536/024.100;
    536/024.300; 536/024.310; 536/024.320; 536/024.330
IC [7]
  ICM: C07H021-00
  ICS: C07H021-04; C12Q001-68
EXF 435/6; 435/69.1; 422/50; 422/68.1; 436/501; 536/23.1; 536/24.1;
  536/24.3-24.33
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 38 OF 65 USPATFULL on STN
AN 2001:212136 USPATFULL
TI 39406 protein, a novel seven transmembrane protein
IN Glucksmann, Maria Alexandra, Lexington, MA, United States
  Galvin, Katherine M., Jamaica Plain, MA, United States
PA Millennium Pharmaceuticals, Inc (U.S. corporation)
PI US 2001044130 A1 20011122
AI US 2001-779239 A1 20010208 (9)
PRAI US 2000-180912P 20000208 (60)
DT Utility
FS APPLICATION
LN.CNT 4199
INCL INCLM: 435/069.100
  INCLS: 435/325.000; 536/023.500; 530/350.000
NCL NCLM: 435/069.100
  NCLS: 435/325.000; 536/023.500; 530/350.000
IC [7]
  ICM: C12P021-02
  ICS: C12N005-06; C07H021-04; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 39 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72394 DNA DGENE
TI Use of a ***secretin*** ***receptor*** ligand in a medicament for
  the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC BETA2/NeuroD probe.

L14 ANSWER 40 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72393 DNA DGENE
TI Use of a ***secretin*** ***receptor*** ligand in a medicament for the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC BETA2/NeuroD reverse primer.

L14 ANSWER 41 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72392 DNA DGENE
TI Use of a ***secretin*** ***receptor*** ligand in a medicament for the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC BETA2/NeuroD forward primer.

L14 ANSWER 42 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72391 DNA DGENE
TI Use of a ***secretin*** ***receptor*** ligand in a medicament for the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC GAPDH probe.

L14 ANSWER 43 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72390 DNA DGENE
TI Use of a ***secretin*** ***receptor*** ligand in a medicament for the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC GAPDH reverse primer.

L14 ANSWER 44 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72389 DNA DGENE
TI Use of a ***secretin*** ***receptor*** ligand in a medicament for the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC GAPDH forward primer.

L14 ANSWER 45 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72388 DNA DGENE

TI Use of a ***secretin*** ***receptor*** ligand in a medicament for the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC ***Secretin*** ***receptor*** probe.

L14 ANSWER 46 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72387 DNA DGENE
TI Use of a ***secretin*** ***receptor*** ligand in a medicament for the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC ***Secretin*** ***receptor*** reverse primer.

L14 ANSWER 47 OF 65 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAI72386 DNA DGENE
TI Use of a ***secretin*** ***receptor*** ligand in a medicament for the treatment of cystic fibrosis -
IN Davis R J; Page K J
PA (PHAR-N) PHARMAGENE LAB LTD.
PI WO 2002002134 A1 20020110 50p
AI WO 2001-GB2989 20010704
PRAI GB 2000-16441 20000704
DT Patent
LA English
OS 2002-171615 [22]
DESC ***Secretin*** ***receptor*** forward primer.

L14 ANSWER 48 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567815 GenBank (R)
GenBank ACC. NO. (GBN): AR567815
GenBank VERSION (VER): AR567815.1 GI:53985692
CAS REGISTRY NO. (RN): 760797-68-0
SEQUENCE LENGTH (SQL): 21
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 9 from patent US 6780839.
SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 21)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 9 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..21	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):
1 agcaaggcac caccttgcgc a

L14 ANSWER 49 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567814 GenBank (R)
GenBank ACC. NO. (GBN): AR567814
GenBank VERSION (VER): AR567814.1 GI:53985691
CAS REGISTRY NO. (RN): 760797-67-9
SEQUENCE LENGTH (SQL): 23
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 8 from patent US 6780839.
SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 23)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 8 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..23	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):
1 gtctcgattt tggacagctt ctg

L14 ANSWER 50 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567813 GenBank (R)
GenBank ACC. NO. (GBN): AR567813
GenBank VERSION (VER): AR567813.1 GI:53985690
CAS REGISTRY NO. (RN): 760797-66-8
SEQUENCE LENGTH (SQL): 17
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 7 from patent US 6780839.
SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 17)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 7 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..17	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):
1 gaacgcggcg ctagaca

L14 ANSWER 51 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567812 GenBank (R)
GenBank ACC. NO. (GBN): AR567812
GenBank VERSION (VER): AR567812.1 GI:53985689
CAS REGISTRY NO. (RN): 760797-65-7
SEQUENCE LENGTH (SQL): 20
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 6 from patent US 6780839.

SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 20)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 6 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..20	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):
1 tttggtcgta ttgggcgcct

L14 ANSWER 52 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567811 GenBank (R)
GenBank ACC. NO. (GBN): AR567811
GenBank VERSION (VER): AR567811.1 GI:53985688
CAS REGISTRY NO. (RN): 760797-64-6
SEQUENCE LENGTH (SQL): 22
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 5 from patent US 6780839.
SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 22)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 5 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..22	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):
1 cagagttaaa agcagccctg gt

L14 ANSWER 53 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567810 GenBank (R)
GenBank ACC. NO. (GBN): AR567810
GenBank VERSION (VER): AR567810.1 GI:53985687
CAS REGISTRY NO. (RN): 760797-63-5
SEQUENCE LENGTH (SQL): 22
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 4 from patent US 6780839.
SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 22)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 4 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..22	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):

1 gaaggtgaag gtcggagtca ac

L14 ANSWER 54 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567809 GenBank (R)
GenBank ACC. NO. (GBN): AR567809
GenBank VERSION (VER): AR567809.1 GI:53985686
CAS REGISTRY NO. (RN): 760797-62-4
SEQUENCE LENGTH (SQL): 24
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 3 from patent US 6780839.
SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 24)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 3 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..24	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):

1 tctctgtccg tgggtgaccc tgct

L14 ANSWER 55 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567808 GenBank (R)
GenBank ACC. NO. (GBN): AR567808
GenBank VERSION (VER): AR567808.1 GI:53985685
CAS REGISTRY NO. (RN): 760797-61-3
SEQUENCE LENGTH (SQL): 20
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 2 from patent US 6780839.
SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 20)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 2 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..20	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):

1 ccttcgcagg acctctcttg

L14 ANSWER 56 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AR567807 GenBank (R)
GenBank ACC. NO. (GBN): AR567807
GenBank VERSION (VER): AR567807.1 GI:53985684
CAS REGISTRY NO. (RN): 760797-60-2
SEQUENCE LENGTH (SQL): 22
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 8 Oct 2004
DEFINITION (DEF): Sequence 1 from patent US 6780839.
SOURCE: Unknown.
ORGANISM (ORGN): Unknown.
Unclassified
REFERENCE: 1 (bases 1 to 22)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: US 6780839-A 1 24-AUG-2004;

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..22	/organism="unknown" /mol-type="genomic DNA"

SEQUENCE (SEQ):
1 gaccagcatc atctgagagg ct

L14 ANSWER 57 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348122 GenBank (R)
GenBank ACC. NO. (GBN): AX348122
GenBank VERSION (VER): AX348122.1 GI:18614226
CAS REGISTRY NO. (RN): 392536-17-3
SEQUENCE LENGTH (SQL): 21
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 9 from Patent WO0202134.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 6 a 8 c 5 g 2 t
REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: WO 0202134-A 9 10-JAN-2002; Pharmagene Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..21	/organism="synthetic construct" /db-xref="taxon:32630" /note="Probe"

SEQUENCE (SEQ):
1 agcaaggcac caccttgcgc a

L14 ANSWER 58 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348121 GenBank (R)
GenBank ACC. NO. (GBN): AX348121
GenBank VERSION (VER): AX348121.1 GI:18614225
CAS REGISTRY NO. (RN): 392536-16-2
SEQUENCE LENGTH (SQL): 23

MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 8 from Patent WO0202134.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 3 a 5 c 6 g 9 t
REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: WO 0202134-A 8 10-JAN-2002; Pharmagene Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..23	/organism="synthetic construct" /db-xref="taxon:32630" /note="Primer"

SEQUENCE (SEQ):
1 gtctcgattt tggacagctt ctg

L14 ANSWER 59 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348120 GenBank (R)
GenBank ACC. NO. (GBN): AX348120
GenBank VERSION (VER): AX348120.1 GI:18614224
CAS REGISTRY NO. (RN): 392536-15-1
SEQUENCE LENGTH (SQL): 17
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 7 from Patent WO0202134.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 5 a 5 c 6 g 1 t
REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: WO 0202134-A 7 10-JAN-2002; Pharmagene Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..17	/organism="synthetic construct" /db-xref="taxon:32630" /note="Primer"

SEQUENCE (SEQ):
1 gaacgcggcg ctagaca

L14 ANSWER 60 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348119 GenBank (R)
GenBank ACC. NO. (GBN): AX348119
GenBank VERSION (VER): AX348119.1 GI:18614223
CAS REGISTRY NO. (RN): 392536-14-0
SEQUENCE LENGTH (SQL): 20
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 6 from Patent WO0202134.

SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 1 a 4 c 7 g 8 t
REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: WO 0202134-A 6 10-JAN-2002; Pharmagene Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..20	/organism="synthetic construct" /db-xref="taxon:32630" /note="Probe"

SEQUENCE (SEQ):
1 tttggtcgta ttgggcgcct

L14 ANSWER 61 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348118 GenBank (R)
GenBank ACC. NO. (GBN): AX348118
GenBank VERSION (VER): AX348118.1 GI:18614222
CAS REGISTRY NO. (RN): 392536-13-9
SEQUENCE LENGTH (SQL): 22
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 5 from Patent WO0202134.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 7 a 5 c 6 g 4 t
REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: WO 0202134-A 5 10-JAN-2002; Pharmagene Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..22	/organism="synthetic construct" /db-xref="taxon:32630" /note="Primer"

SEQUENCE (SEQ):
1 cagagttaaa agcagccctg gt

L14 ANSWER 62 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348117 GenBank (R)
GenBank ACC. NO. (GBN): AX348117
GenBank VERSION (VER): AX348117.1 GI:18614221
CAS REGISTRY NO. (RN): 392536-12-8
SEQUENCE LENGTH (SQL): 22
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 4 from Patent WO0202134.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 7 a 3 c 9 g 3 t

REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: WO 0202134-A 4 10-JAN-2002; Pharmagene Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..22	/organism="synthetic construct" /db-xref="taxon:32630" /note="Primer"

SEQUENCE (SEQ):
1 gaaggtgaag gtcggagtca ac

L14 ANSWER 63 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348116 GenBank (R)
GenBank ACC. NO. (GBN): AX348116
GenBank VERSION (VER): AX348116.1 GI:18614220
CAS REGISTRY NO. (RN): 392536-11-7
SEQUENCE LENGTH (SQL): 24
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 3 from Patent WO0202134.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 1 a 8 c 7 g 8 t
REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic*** ***obstructive*** ***pulmonary*** ***disease*** (COPD)
JOURNAL (SO): Patent: WO 0202134-A 3 10-JAN-2002; Pharmagene Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..24	/organism="synthetic construct" /db-xref="taxon:32630" /note="Probe"

SEQUENCE (SEQ):
1 tctctgtccg tgggtgaccc tgct

L14 ANSWER 64 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348115 GenBank (R)
GenBank ACC. NO. (GBN): AX348115
GenBank VERSION (VER): AX348115.1 GI:18614219
CAS REGISTRY NO. (RN): 392536-10-6
SEQUENCE LENGTH (SQL): 20
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 2 from Patent WO0202134.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 2 a 8 c 4 g 6 t
REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in treatment of cystic fibrosis (CF) and ***chronic***

obstructive ***pulmonary*** ***disease***
(COPD)
JOURNAL (SO): Patent: WO 0202134-A 2 10-JAN-2002; Pharmagene
Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..20	/organism="synthetic construct" /db-xref="taxon:32630" /note="Primer"

SEQUENCE (SEQ):
1 ccttcgcagg acctctcttg

L14 ANSWER 65 OF 65 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX348114 GenBank (R)
GenBank ACC. NO. (GBN): AX348114
GenBank VERSION (VER): AX348114.1 GI:18614218
CAS REGISTRY NO. (RN): 392536-09-3
SEQUENCE LENGTH (SQL): 22
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 6 Feb 2002
DEFINITION (DEF): Sequence 1 from Patent WO0202134.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 6 a 6 c 6 g 4 t
REFERENCE: 1 (sites)
AUTHOR (AU): Davis,R.J.; Page,K.J.
TITLE (TI): Use of ***secretin*** - ***receptor*** ligands in
treatment of cystic fibrosis (CF) and ***chronic***
obstructive ***pulmonary*** ***disease***
(COPD)
JOURNAL (SO): Patent: WO 0202134-A 1 10-JAN-2002; Pharmagene
Laboratories Ltd (GB)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..22	/organism="synthetic construct" /db-xref="taxon:32630" /note="Primer"

SEQUENCE (SEQ):
1 gaccagcatc atctgagagg ct
STN INTERNATIONAL LOGOFF AT 14:05:44 ON 24 MAR 2005